Title (en)

CONTROL SYSTEM FOR POWER TRANSMISSION UNIT

Title (de)

STEUERSYSTEM FÜR EINE KRAFTÜBERTRAGUNGSEINHEIT

Title (fr)

SYSTÈME DE COMMANDE POUR UNITÉ DE TRANSMISSION DE PUISSANCE

Publication

EP 3832162 A1 20210609 (EN)

Application

EP 20211885 A 20201204

Priority

JP 2019220466 A 20191205

Abstract (en)

A control system for a power transmission (1) unit configured to shift an operating mode smoothly by manipulating engagement devices (CL1, CL2), and to simplify a structure of the power transmission unit (1). The control system is configured to reduce a speed difference between an axially stationary engagement element (20) and a reciprocatable engagement element (21) of a second engagement device (CL1) when shifting from a first continuously variable mode to a second continuously variable mode by engaging the second engagement device (CL1). After the second engagement device (CL1) has been engaged completely, a first engagement device (CL2) is disengaged.

IPC 8 full level

F16H 3/72 (2006.01); **B60K 6/365** (2007.10); **B60K 6/445** (2007.10); **F16H 61/04** (2006.01); **F16H 63/18** (2006.01)

CPC (source: CN EP US)

B60K 6/365 (2013.01 - EP); **B60K 6/383** (2013.01 - EP); **B60K 6/387** (2013.01 - EP); **B60K 6/445** (2013.01 - EP); **B60K 6/547** (2013.01 - EP); **B60W 10/08** (2013.01 - EP); **B60W 10/115** (2013.01 - EP); **B60W 30/19** (2013.01 - EP); **F16D 48/06** (2013.01 - CN); **F16H 61/0403** (2013.01 - EP US); **F16H 61/664** (2013.01 - US); **F16H 63/18** (2013.01 - EP); **F16H 63/304** (2013.01 - US); F16D 2500/10412 (2013.01 - CN); F16D 2500/10425 (2013.01 - CN); F16D 2500/10462 (2013.01 - CN); F16D 2500/1066 (2013.01 - CN); F16D 2500/1088 (2013.01 - CN); F16D 2500/306 (2013.01 - CN); F16D 2500/3061 (2013.01 - CN); F16D 2500/3064 (2013.01 - CN); F16D 2500/3065 (2013.01 - CN); F16D 2500/3067 (2013.01 - CN); F16D 2500/3069 (2013.01 - CN); F16D 2500/308 (2013.01 - CN); F16D 2500/30803 (2013.01 - CN); F16D 2500/30825 (2013.01 - CN); F16D 2500/3108 (2013.01 - CN); F16D 2500/3168 (2013.01 - CN); F16D 2500/50239 (2013.01 - CN); F16D 2500/50287 (2013.01 - CN); F16D 2500/50607 (2013.01 - CN); F16D 2500/7027 (2013.01 - CN); F16D 2500/70422 (2013.01 - CN); F16D 2500/70454 (2013.01 - CN); F16D 2500/70458 (2013.01 - CN); F16H 2059/462 (2013.01 - EP); F16H 2061/0422 (2013.01 - EP US); F16H 2061/0474 (2013.01 - EP); F16H 2063/3056 (2013.01 - US); Y02T 10/62 (2013.01 - EP)

Citation (applicant)

- JP 2017007437 A 20170112 - TOYOTA MOTOR CORP
- JP H07127670 A 19950516 - MAZDA MOTOR

Citation (search report)

- [X] GB 2506601 A 20140409 - GM GLOBAL TECH OPERATIONS INC [US]
- [A] EP 3483481 A1 20190515 - TOYOTA MOTOR CO LTD [JP]
- [A] US 2007221432 A1 20070927 - FOURNIER VINCENT [FR], et al
- [A] EP 3106337 A1 20161221 - AVL LIST GMBH [AT]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3832162 A1 20210609; CN 112922974 A 20210608; JP 2021088312 A 20210610; US 11162582 B2 20211102; US 2021172517 A1 20210610

DOCDB simple family (application)

EP 20211885 A 20201204; CN 202011411824 A 20201204; JP 2019220466 A 20191205; US 202017097527 A 20201113